

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Currently Amended) An optical wireless communication system comprising a transmitter and a receiver,

said transmitter comprising:

a first optical transmitting unit which transmits a first optical signal having a narrow directivity,

said receiver comprising:

a first optical receiving unit which receives said first optical signal and converts said first optical signal into an electric signal;

a light-receiving level detecting unit which detects a light-receiving level of said first optical signal received by said first optical receiving unit; and

a second optical transmitting unit which transmits a second optical signal which carries information of the light-receiving level of said first optical signal obtained by said light-receiving level detecting unit and has directivity wider than the narrow directivity of said first optical signal, and

said transmitter further comprising:

a second optical receiving unit including a plurality of light-receiving elements, each light-receiving element receiving said second optical signal at a level corresponding to a difference in direction between an optical axis of said receiver and an optical axis of said transmitter;

a drive unit which changes the direction of the optical axis of said transmitter by integrally shifting said first optical transmitting unit and said second optical receiving unit;

a rough optical axis adjusting unit which executes a rough optical axis adjustment by controlling said drive unit so as to substantially equalize the light-receiving levels received by said plurality of light-receiving elements to one another; and

a fine optical axis adjusting unit which executes a fine optical axis adjustment by controlling said drive unit based on the information of the light-receiving level of the first optical signal, which is contained in the second optical signal received by said second optical receiving unit, while searching a relatively wide region when the light-receiving level of the first optical signal is relatively small and searching a relatively narrow region

when the light-receiving level of the first optical signal is relatively large, after the rough optical axis adjustment by said rough optical axis adjusting unit is accomplished, wherein:

transmission of said first optical signal by said first optical transmitting unit is stopped until at least one of the light-receiving levels of said plurality of light-receiving elements of said second optical receiving unit exceeds a predetermined value.

2. (Previously Presented) The optical wireless communication system in accordance with claim 1, wherein said plurality of light-receiving elements of said second optical receiving unit are four photoelectric conversion elements arranged in a matrix pattern consisting of two lines and two rows in horizontal and vertical directions, and

said rough optical axis adjusting unit executes the rough positioning of the optical axis in a total of eight directions based on the difference in the light-receiving levels of said four photoelectric conversion elements.

3. (Previously Presented) The optical wireless communication system in accordance with claim 1, wherein said

fine optical axis adjusting unit searches a region wherein said light-receiving level information exceeds a predetermined value and executes the fine optical axis adjustment for the region identified by the search.

4. (Canceled).

5. (Previously Presented) The optical wireless communication system in accordance with claim 1, wherein said fine optical axis adjusting unit estimates a distance to said receiver based on said light-receiving level information, and accomplishes said fine optical axis adjustment.

6. (Canceled).

7. (Previously Presented) The optical wireless communication system in accordance with claim 1, wherein the fine optical axis adjusting unit is adapted to execute the fine optical axis adjustment such that the light-receiving level of the first optical signal is maximized.

8. (Previously Presented) The optical wireless communication system in accordance with claim 1, wherein the fine

optical axis adjusting unit is adapted to execute the fine optical axis adjustment such that the light-receiving level of the first optical signal exceeds a communicable level.